

WHAT IS CLAIMED IS

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1. An image forming apparatus comprising:
a hardware resource used for image forming
processing; and
a program for performing processing concerning
10 image formation,
wherein said apparatus comprises:
a reading type changing part changing a type
of reading an original during an plurality of originals
which include different types of originals in a mixed
15 manner being read; and
a grouping part grouping printing paper sheets
on which images have been formed based on the plurality
of originals.

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2. The image forming apparatus as claimed in
claim 1, wherein:
25 said reading type changing part changes a type

of reading an original in response to a reading type
change instruction input by an operator.

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3. The image forming apparatus as claimed in
claim 2, wherein:

said type comprises a type of an original as
10 to whether the original has an image on a single side
thereof or images on both sides thereof.

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4. The image forming apparatus as claimed in
claim 1, wherein:

said type comprises a size of the original.

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5. The image forming apparatus as claimed in
claim 4, further comprising a size detecting part
25 detecting the size of the original.

6. The image forming apparatus as claimed in claim 5, wherein:

said reading type changing part changes the type of reading an original when the size of an original
5 detected by said size detecting part immediately before is different from the size of an original which is read subsequently.

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7. The image forming apparatus as claimed in claim 5, wherein:

said size detecting part stops a size
15 detection operation in response to a reading size changing instruction input by an operator.

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8. The image forming apparatus as claimed in claim 1, wherein:

in case the reading type changing part changes the type of reading an original, an image of an original
25 which is read subsequently is formed on a printing paper

sheet which is different from a printing paper sheet on which an image is formed immediately before the reading type is changed.

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9. An image forming apparatus comprising:

a hardware resource used for image forming

10 processing; and

a program for performing processing concerning image formation,

wherein said apparatus comprises:

a printing type changing part changing a type

15 in which a read image of an original is formed on a printing paper sheet, during a plurality of originals which include different types of originals in a mixed manner being read; and

a grouping part grouping the printing paper
20 sheets on which images have been formed based on the plurality of originals.

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10. The image forming apparatus as claimed in claim 9, wherein:

5 said reading type changing part changes the type in which an image of original is formed on a printing paper sheet in response to a printing type change instruction input by an operator.

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11. The image forming apparatus as claimed in claim 9, wherein:

15 said type comprises a type of an original as to whether an image of original is formed on a single side of a printing paper sheet or images of originals are formed on a both sides of a printing paper sheet

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12. The image forming apparatus as claimed in claim 9, wherein:

25 in case the printing type changing part changes the type in which an image of original is formed on a printing paper sheet, an image of original formed

subsequently on a printing paper sheet which is
different from a printing paper sheet on which an image
is formed immediately before the type of forming an
image is changed.

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13. The image forming apparatus as claimed in
10 claim 9, wherein:

said type comprises a size of the original.

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14. The image forming apparatus as claimed in
claim 13, further comprising a size detecting part
detecting the size of the original.

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15. The image forming apparatus as claimed in
claim 14, wherein:

25 said printing type changing part changes the

size of a printing paper sheet on which an image of
original is formed subsequently when the size of an
original detected by said size detecting part
immediately before is different from the size of an
5 original which is read subsequently.

10 16. The image forming apparatus as claimed in
claim 14, wherein:

said size detecting part stops an original
size detecting operation in response to a reading type
change instruction input by an operator.

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17. An image forming apparatus comprising:
20 a hardware resource used for image forming
processing; and
a program for performing processing concerning
image formation,

wherein said apparatus comprises:
25 a paper inserting part inserting a

predetermined paper sheet into a plurality of printing paper sheets on which images are formed based on a plurality of originals having different types of originals in a mixed manner; and

5 a grouping part grouping the printing paper sheets.

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18. The image forming apparatus as claimed in claim 17, wherein:

 said paper inserting part inserts a predetermined paper sheet subsequent to a printing paper
15 sheet on which an image of original read immediately before is formed in response to a paper inserting instruction input by an operator, during the plurality of originals being read.

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19. An image forming apparatus comprising:
 a hardware resource used for image forming
25 processing; and

a program for performing processing concerning image formation,

wherein said apparatus comprises:

an original separating part which, in response
5 to an original separating instruction input by an operator during a plurality of originals having different types of originals in a mixed manner being read, forms an image of original immediately subsequent to reception of said instruction onto a printing paper
10 sheet which is different from a printing paper sheet on which an image of original read immediately before the reception of said instruction is formed; and

a grouping part grouping the printing paper sheets on which images have been formed based on the
15 plurality of originals.

20 20. The image forming apparatus as claimed in claim 1, further comprising an automatic original feeding part which automatically reads the plurality of originals set therein.

21. The image forming apparatus as claimed in claim 9, further comprising an automatic original feeding part which automatically reads the plurality of originals set therein.

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22. The image forming apparatus as claimed in claim 17, further comprising an automatic original feeding part which automatically reads the plurality of originals set therein.

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23. The image forming apparatus as claimed in claim 19, further comprising an automatic original feeding part which automatically reads the plurality of originals set therein.

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24. The image forming apparatus as claimed in

claim 1, wherein:

in addition to the image of original, a page number is printed on the printing paper sheet.

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25. The image forming apparatus as claimed in claim 9, wherein:

10 in addition to the image of original, a page number is printed on the printing paper sheet.

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26. The image forming apparatus as claimed in claim 17, wherein:

in addition to the image of original, a page number is printed on the printing paper sheet.

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27. The image forming apparatus as claimed in claim 19, wherein:

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in addition to the image of original, a page number is printed on the printing paper sheet.

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28. The image forming apparatus as claimed in claim 24, wherein:

the page number is not printed on a side of
10 the printing paper sheet on which the image of original is not formed.

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29. The image forming apparatus as claimed in claim 25, wherein:

the page number is not printed on a side of
the printing paper sheet on which the image of original
20 is not formed.

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30. The image forming apparatus as claimed in

claim 26, wherein:

the page number is not printed on a side of
the printing paper sheet on which the image of original
is not formed.

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31. The image forming apparatus as claimed in
10 claim 27, wherein:

the page number is not printed on a side of
the printing paper sheet on which the image of original
is not formed.

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32. The image forming apparatus as claimed in
claim 1, further comprising a recording part which
20 stores data of each image which is formed on the
printing paper sheet.

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33. The image forming apparatus as claimed in claim 9, further comprising a recording part which stores data of each image which is formed on the printing paper sheet.

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34. The image forming apparatus as claimed in claim 17, further comprising a recording part which stores data of each image which is formed on the printing paper sheet.

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35. The image forming apparatus as claimed in claim 19, further comprising a recording part which stores data of each image which is formed on the printing paper sheet.

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25 36. The image forming apparatus as claimed in

claim 32, wherein:

the data stored by said recording part are
integrated.

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37. The image forming apparatus as claimed in
claim 33, wherein:

10 the data stored by said recording part are
integrated.

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38. The image forming apparatus as claimed in
claim 34, wherein:

the data stored by said recording part are
integrated.

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39. The image forming apparatus as claimed in
25 claim 35, wherein:

the data stored by said recording part are integrated.

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40. The image forming apparatus as claimed in claim 1, wherein:

said grouping part groups the plurality of
10 printing paper sheets by attaching a front cover or a
back cover to said plurality of printing paper sheets.

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41. The image forming apparatus as claimed in claim 9, wherein:

said grouping part groups the plurality of
printing paper sheets by attaching a front cover or a
20 back cover to said plurality of printing paper sheets.

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42. The image forming apparatus as claimed in

claim 17, wherein:

said grouping part groups the plurality of printing paper sheets by attaching a front cover or a back cover to said plurality of printing paper sheets.

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43. The image forming apparatus as claimed in claim 19, wherein:

said grouping part groups the plurality of printing paper sheets by attaching a front cover or a back cover to said plurality of printing paper sheets.

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44. The image forming apparatus as claimed in claim 1, wherein:

said grouping part groups the plurality of printing paper sheets by binding them with a staple or punching them.

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45. The image forming apparatus as claimed in claim 9, wherein:

said grouping part groups the plurality of printing paper sheets by binding them with a staple or
5 punching them.

10 46. The image forming apparatus as claimed in claim 17, wherein:

said grouping part groups the plurality of printing paper sheets by binding them with a staple or
punching them.

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47. The image forming apparatus as claimed in
20 claim 19, wherein:

said grouping part groups the plurality of printing paper sheets by binding them with a staple or
punching them.

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48. The image forming apparatus as claimed in claim 1, wherein:

said grouping part groups the plurality of printing paper sheets in response to a finish
5 instruction input by an operator.

10 49. The image forming apparatus as claimed in claim 9, wherein:

said grouping part groups the plurality of printing paper sheets in response to a finish
instruction input by an operator.

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50. The image forming apparatus as claimed in
20 claim 17, wherein:

said grouping part groups the plurality of printing paper sheets in response to a finish
instruction input by an operator.

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51. The image forming apparatus as claimed in claim 19, wherein:

said grouping part groups the plurality of printing paper sheets in response to a finish
5 instruction input by an operator.

10 52. The image forming apparatus as claimed in claim 1, further comprising a sorting part which sorts and ejects the plurality of printing paper sheets on which images of the plurality of originals are formed.

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53. The image forming apparatus as claimed in claim 9, further comprising a sorting part which sorts
20 and ejects the plurality of printing paper sheets on which images of the plurality of originals are formed.

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54. The image forming apparatus as claimed in claim 17, further comprising a sorting part which sorts and ejects the plurality of printing paper sheets on which images of the plurality of originals are formed.

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55. The image forming apparatus as claimed in claim 19, further comprising a sorting part which sorts and ejects the plurality of printing paper sheets on which images of the plurality of originals are formed.

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56. The image forming apparatus as claimed in claim 52, wherein:

said sorting part sorts and ejects the plurality of printing paper sheets in use of the data of images of originals.

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57. The image forming apparatus as claimed in
claim 53, wherein:

said sorting part sorts and ejects the
plurality of printing paper sheets in use of the data of
5 images of originals.

10 58. The image forming apparatus as claimed in
claim 54, wherein:

said sorting part sorts and ejects the
plurality of printing paper sheets in use of the data of
images of originals.

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59. The image forming apparatus as claimed in
20 claim 55, wherein:

said sorting part sorts and ejects the
plurality of printing paper sheets in use of the data of
images of originals.

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60. The image forming apparatus as claimed in claim 56, wherein:

said sorting part ejects the plurality of printing paper sheets with changing an orientation or
5 shifting a position thereof.

10 61. The image forming apparatus as claimed in claim 57, wherein:

said sorting part ejects the plurality of printing paper sheets with changing an orientation or
shifting a position thereof.

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62. The image forming apparatus as claimed in
20 claim 58, wherein:

said sorting part ejects the plurality of printing paper sheets with changing an orientation or
shifting a position thereof.

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63. The image forming apparatus as claimed in claim 59, wherein:

said sorting part ejects the plurality of printing paper sheets with changing an orientation or
5 shifting a position thereof.

10 64. The image forming apparatus as claimed in claim 52, wherein:

said sorting part sorts and ejects the plurality of printing paper sheets in response to a finish instruction input by an operator.

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65. The image forming apparatus as claimed in
20 claim 53, wherein:

said sorting part sorts and ejects the plurality of printing paper sheets in response to a finish instruction input by an operator.

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66. The image forming apparatus as claimed in claim 54, wherein:

5 said sorting part sorts and ejects the plurality of printing paper sheets in response to a finish instruction input by an operator.

10 67. The image forming apparatus as claimed in claim 55, wherein:

15 said sorting part sorts and ejects the plurality of printing paper sheets in response to a finish instruction input by an operator.

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20 68. A printing method for an image forming apparatus which comprises:

 a hardware resource used for image forming processing; and

 a program for performing processing concerning image formation,

25 wherein said method comprises:

a reading type changing step of changing a type of reading an original during a plurality of originals which include different types of originals in a mixed manner being read; and

5 a grouping step of grouping printing paper sheets on which images have been formed based on the plurality of originals.

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69. A printing method for an image forming apparatus which comprises:

a hardware resource used for image forming
15 processing; and

a program for performing processing concerning image formation,

wherein said method comprises:

a printing type changing step of changing a
20 type in which a read image of an original is formed on a printing paper sheet, during a plurality of originals which include different types of originals in a mixed manner being read; and

a grouping step of grouping the printing paper
25 sheets on which images have been formed based on the

plurality of originals.

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70. A printing method for an image forming apparatus which comprises:

a hardware resource used for image forming processing; and

10 a program for performing processing concerning image formation,

wherein said method comprises:

a paper inserting step of inserting a predetermined paper sheet into a plurality of printing
15 paper sheets on which images are formed based on a plurality of originals having different types of originals in a mixed manner; and

a grouping step of grouping the printing paper sheets.

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71. A printing method for an image forming
25 apparatus which comprises:

a hardware resource used for image forming processing; and

a program for performing processing concerning image formation,

5 wherein said method comprises:

an original separating step of, in response to an original separating instruction input by an operator during a plurality of originals having different types of originals in a mixed manner being read, forming an
10 image of original immediately subsequent to reception of said instruction onto a printing paper sheet which is different from a printing paper sheet on which an image of original read immediately before the reception of said instruction is formed; and

15 a grouping step of grouping printing paper sheets on which images have been formed based on the plurality of originals.

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72. The printing method as claimed in claim 68, further comprising a sorting step of sorting and ejecting the plurality of printing paper sheets in case
25 of ejecting a plurality of groups of printing paper

sheets, which groups are obtained in said grouping step.

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73. The printing method as claimed in claim
69, further comprising a sorting step of sorting and
ejecting the plurality of printing paper sheets in case
of ejecting a plurality of groups of printing paper
10 sheets, which groups are obtained in said grouping step.

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74. The printing method as claimed in claim
70, further comprising a sorting step of sorting and
ejecting the plurality of printing paper sheets in case
of ejecting a plurality of groups of printing paper
sheets, which groups are obtained in said grouping step.

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75. The printing method as claimed in claim
25 71, further comprising a sorting step of sorting and

ejecting the plurality of printing paper sheets in case of ejecting a plurality of groups of printing paper sheets, which groups are obtained in said grouping step.